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(54) Title: **SCALABLE PARTITION MEMORY MAPPING SYSTEM**

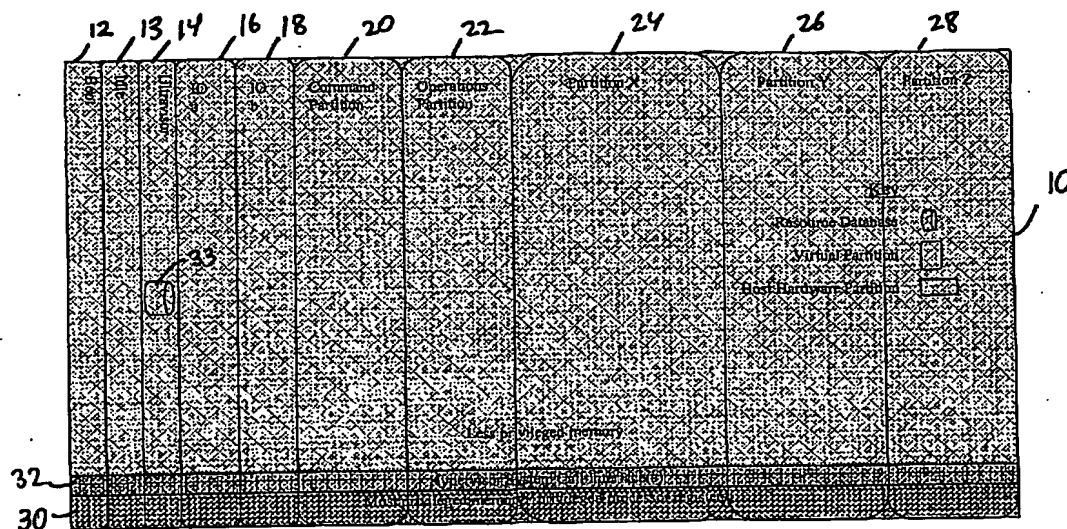


Figure 1: Partitioned Host System

(57) Abstract: A scalable partition memory mapping system is implemented in the ultravisor partition so that the virtualized system is scalable to a virtually unlimited number of pages. A virtualization infrastructure that allows multiple guest partitions to run within a host hardware partition. Partitioned host system (10) has lesser privileged memory that is divided into distinct logical or virtual partitions including special infrastructure partitions such as boot partition (12), idle partition (13), ultravisor partition (14), first and second I/O partitions (16 and 18), command partition (20), and operation (22), as well as virtual guest partitions (24, 26 and 28). The resource manager application of the ultravisor partition (14) manages a resource database (33) that keeps track of assignment of the resources to partitions.

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